Falcon

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Falcon

Synonyms
Propaquizafop 100 EC
Pure substance/mixture
Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use
Herbicide
Uses advised against
No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address
ADAMA Agricultural Solutions UK Ltd
Unit 15, Thatcham Buisness Village Colthrop Way,
Thatcham Berkshire RG19 4LW, UK : 01635 860555
Fax: 01635 861555

For further information, please contact

Email address
ukenquiries@adama.com

1.4. Emergency telephone number

Emergency Telephone
National Chemical Emergency Centre (UK):
Tel: 01865 407333 (24 hours)

Section 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aspiration hazard
Category 1 - (H304)
Serious eye damage/eye irritation
Category 2 - (H319)
Hazardous to the Aquatic
Category 2 - (H411)
Environment - Chronic Hazard

Classification according to Directive 67/548/EEC or 1999/45/EC
Full text of R-phrases: see section 16

Xi;R36 - R66 - N;R51-53
2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

![Hazard Pictograms](image)

Signal word  
Danger

Hazard Statements  
H304 - May be fatal if swallowed and enters airways  
H319 - Causes serious eye irritation  
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements  
P102 - Keep out of reach of children  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P331 - Do NOT induce vomiting  
P501 - Dispose of contents/container to an approved waste disposal plant

EU Specific Hazard Statements  
EUH066 - Repeated exposure may cause skin dryness or cracking  
EUH208 - Contains Propaquizafop. May produce an allergic reaction  
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

Additional phrases for PPP  
SP1 - Do not contaminate water with the product or its container

2.3. Other hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight-%</th>
<th>CAS No</th>
<th>EC No</th>
<th>Index No</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Classification according to 67/548/EEC</th>
<th>M-Factor</th>
<th>REACH Registration Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propaquizafop</td>
<td>7-12</td>
<td>111479-05-1</td>
<td>-</td>
<td>-</td>
<td>Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)</td>
<td>Xi; R43 N; R50-53</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Propylene carbonate</td>
<td>4-7</td>
<td>108-32-7</td>
<td>203-572-1</td>
<td>607-194-00-1</td>
<td>Eye Irrit. 2 (H319)</td>
<td>Xi; R36</td>
<td>01-21195372 32-48-0000</td>
<td></td>
</tr>
<tr>
<td>A fatty alcohol polyglycol ether</td>
<td>34-38</td>
<td>9043-30-5</td>
<td>500-027-2</td>
<td>-</td>
<td>Eye Dam. 1 (H318) Acute Tox. 4 (H302)</td>
<td>Xn; R22 Xi; R41</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Hydrocarbons, C10-C13, aromatics, &lt;1% naphthalene</td>
<td>40-45</td>
<td>N/A</td>
<td>922-153-0</td>
<td>-</td>
<td>Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) (EUH066)</td>
<td>Xn; R65 R66 N; R51/53</td>
<td>01-21194510 97-39-0005</td>
<td></td>
</tr>
</tbody>
</table>

Full text of R-phrases: see section 16
Full text of H- and EUH-phrases: see section 16
Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!

Inhalation
Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Ingestion
Do NOT induce vomiting. Immediate medical attention is required. Rinse mouth.

Self-protection of the first aider
Use personal protective equipment as required.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms
None known

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians
Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
No information available.

5.2. Special hazards arising from the substance or mixture

No specific hazard known.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus
In the event of fire and/or explosion do not breathe fumes

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment as required. Avoid contact with eyes and skin. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders
Use personal protection recommended in Section 8.
6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Other Information
See also section 8,13

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling
Use personal protective equipment as required. Use only with adequate ventilation. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

General Hygiene Considerations
When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

7.3. Specific end use(s)

Risk Management Methods (RMM)
The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Derived No Effect Level (DNEL) No information available
Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment
Eye/face protection
Tight sealing safety goggles.

Body Protection
Suitable protective clothing, Apron, Gloves made of plastic or rubber.

General Hygiene Considerations
When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

Environmental exposure controls
Do not allow into any sewer, on the ground or into any body of water.
Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>amber</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Aromatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>4.2 - 5.2</td>
<td>CIPAC MT 75.3</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point °C</td>
<td>----</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Boiling point/boiling range °C</td>
<td>No data available</td>
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<td></td>
</tr>
<tr>
<td>Flash point °C</td>
<td>102.6</td>
<td>CIPAC MT 12</td>
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</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable for liquids</td>
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<td></td>
</tr>
<tr>
<td>Upper/lower flammability or</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>explosive limits</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Vapor pressure kPa</td>
<td>----</td>
<td></td>
<td>Not Applicable</td>
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<tr>
<td>Vapor density</td>
<td>No data available</td>
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<td></td>
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<tr>
<td>Relative density</td>
<td>0.99 - 1.09</td>
<td>CIPAC MT 3.3</td>
<td>20 °C</td>
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<tr>
<td>Solubility(ies) mg/l</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>(n-octanol/water) Log Pow</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature °C</td>
<td>410</td>
<td>EEC A.15</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature °C</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity mm2/s 40 °C</td>
<td>16.2</td>
<td>OECD 114</td>
<td></td>
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<td>Explosive properties</td>
<td>Not an explosive</td>
<td>EEC A.14</td>
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<tr>
<td>Oxidizing properties</td>
<td>Not oxidizing</td>
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<td></td>
</tr>
<tr>
<td>Solubility(ies) mg/l</td>
<td>----</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature °C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature °C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity mm2/s 40 °C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td></td>
<td></td>
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</table>

9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulk density g/ml</td>
<td>----</td>
<td></td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Surface tension mN/m</td>
<td>26.9</td>
<td>EEC A.5</td>
<td>25 °C</td>
</tr>
</tbody>
</table>

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

None under normal use conditions.
Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th></th>
<th>Values</th>
<th>Species</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50 mg/kg</td>
<td>&gt; 2000</td>
<td>Rat</td>
<td>OECD 423</td>
<td></td>
</tr>
<tr>
<td>Dermal LD50 mg/kg</td>
<td>&gt; 2000</td>
<td>Rat</td>
<td>OECD 402</td>
<td></td>
</tr>
<tr>
<td>Inhalation LC50 mg/l/4h</td>
<td>&gt; 5.15</td>
<td>Rat</td>
<td>OECD 403</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory/skin sensitization</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chronic toxicity

Germ cell mutagenicity

Chemical Name
Propaquizafop : Not classified

Carcinogenicity

Chemical Name
Propaquizafop : Not Carcinogenic

Reproductive toxicity

Chemical Name
Propaquizafop : Not toxic for the reproductive system

STOT - single exposure

Chemical Name
Propaquizafop : No data available

STOT - repeated exposure

Chemical Name
Propaquizafop : No data available

Aspiration hazard

Chemical Name
Propaquizafop : Not available

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

<table>
<thead>
<tr>
<th></th>
<th>Values</th>
<th>Species</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish 96-hour LC50 mg/l</td>
<td>6.53</td>
<td>Oncorhynchus mykiss</td>
<td>OECD 203</td>
<td></td>
</tr>
<tr>
<td>Crustacea 48-hour EC50 mg/l</td>
<td>12.9</td>
<td>Daphnia magna</td>
<td>OECD 202</td>
<td>Biomass</td>
</tr>
<tr>
<td>Algae 72-hour EC50 mg/l</td>
<td>2.99</td>
<td>D. Subspicatus</td>
<td>OECD 201</td>
<td></td>
</tr>
<tr>
<td>Other plants EC50 mg/l</td>
<td></td>
<td></td>
<td></td>
<td>Not available</td>
</tr>
</tbody>
</table>

Terrestrial Toxicity

Birds Oral LD50 mg/kg

Chemical Name
Propaquizafop : > 2000 C. virginianus EPA-FIFRA 71-1

Bees Oral LD50 μg/bee

Chemical Name
Propaquizafop : --- Not toxic to bees
12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Abiotic Degradation</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water DT50 days</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical Name</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propaquizafop</td>
<td>32</td>
<td>EPA-FIFRA 161-2/3</td>
<td>pH 7, 25 °C</td>
</tr>
<tr>
<td>Soil DT50 days</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical Name</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propaquizafop</td>
<td>----</td>
<td></td>
<td>No data available</td>
</tr>
</tbody>
</table>

Biodegradation

Chemical Name

Propaquizafop

Not readily biodegradable OECD 301 B

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Partition Coefficient</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>(n-octanol/water) Log Pow</td>
<td></td>
<td>OECD 117</td>
<td>25° C</td>
</tr>
<tr>
<td>Chemical Name</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Propaquizafop</td>
<td>4.78</td>
<td></td>
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</tbody>
</table>

Bioconcentration factor (BCF)

Chemical Name

Propaquizafop

Not readily biodegradable OECD 301 B

12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Adsorption/Desorption</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propaquizafop</td>
<td>----</td>
<td></td>
<td>No data available</td>
</tr>
</tbody>
</table>

12.5. Results of PBT and vPvB assessment
The components in this formulation do not meet the criteria for classification as PBT or vPvB

12.6. Other adverse effects
No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging
Improper disposal or reuse of this container may be dangerous and illegal.

Other Information
Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

14.1 UN/ID No 3082
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Propaquizafop Hydrocarbons, C10-13, aromatics, <1% naphthalene, )
14.3 Hazard Class 9
### Section 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.2. Chemical safety assessment**
A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

### Section 16: OTHER INFORMATION

**Full text of R-phrases referred to under sections 2 and 3**
- R22 - Harmful if swallowed
- R36 - Irritating to eyes
- R41 - Risk of serious damage to eyes
- R43 - May cause sensitization by skin contact
- R65 - Harmful: may cause lung damage if swallowed
- R66 - Repeated exposure may cause skin dryness or cracking
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Full text of H-Statements referred to under sections 2 and 3
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects
EUH066 - Repeated exposure may cause skin dryness or cracking

Revision Note
*** - Change from previous version.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet